

Curriculum vitae:



Personal Details:

Surname: Zare Shahrabadi

First name: Zahra

Date of birth: 12.03.1979

Place of birth: Shiraz

Gender: Female

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Academic Records:

2020-2021: Postdoctoral in Medical Mycology

Department of Medical Mycology & parasitology, School of
Medicine, Shiraz university of Medical Sciences, Shiraz, Iran.

Postdoc research: Amphotericin B -Iron Hybrid Nanoparticles: Synthesis, Properties and Potentiation of Antifungal Activity against Common Human Pathogenic Fungal Strains

2015-2019: Ph.D in Medical Mycology

Department of Medical Mycology & Parasitology
School of Public Health and Institute of Public Health Research,
Tehran University of Medical Sciences, Tehran, Iran.

Average score in Ph.D: 18.7

Dissertation: In-vitro and in-vivo regulation of *Candida albicans* morphogenesis and pathogenesis by probiotic bacterium – *Pediococcus acidilactici*.

2013-2015: Master of Science in Medical Mycology

Department of Medical Mycology & parasitology, School of
Medicine, Shiraz university of Medical Sciences, Shiraz, Iran

Dissertation: Identification of non- *Cryptococcus* yeast isolates from pigeon dropping in Shiraz.

2008-2010: Bachelor of Science in Medical Laboratory Sciences

School of para- medicine, Shiraz university of Medical Sciences,
Shiraz, Iran

1998-2000: Higher diploma Medical Laboratory Technology

School of para- Medicine, Shiraz university of Medical Sciences,
Shiraz, Iran

Educational Enrichment:

2012: Achievement a superior position in Master of Science, entrance exam (Medical Mycology).

2013: Achievement highest credit among Master of Science Students of Medical Mycology, Shiraz, Iran.

2015: Achievement a superior position in Ph.D entrance exam (Medical Mycology).

2019: Achievement highest credit among Ph.D Students of Medical Mycology, Tehran, Iran.

Teaching experiences (Practical and Theoretical):

Teaching of Medical Mycology courses to:

- Under graduate: MD, Pharm D, Dent D and paramedical students
- Post graduate: MS and Ph.D students

Memberships:

- International Society for Human and Animal Mycology (ISHAM)
- Iranian Society of Medical Mycology (ISMM)
- American Society for Microbiology (ASM)

Specializations

Main field: Medical Mycology (Identification of fungal infection referring to Medical Mycology reference laboratory)

Other fields: Molecular Biology, susceptibility testing, Probiotic bacteria treatment, Nanoparticle synthesis, Biofilm assay, Medical Laboratory Sciences, Medical Microbiology

MSRT(MCHE) Exam:

English Language Testing Report Form:

Listening Comprehension	Structure&Written Expression	Reading Comprehension	Total Score
26/30	23/30	31/40	80/100

Laboratory skills:

- Current affairs Medical Mycology lab
- DNA extraction- PCR
- Quantitative real-time PCR
- PCR-RFLP
- Antifungal susceptibility tests (Macro & Micro dilution, Agar dilution, Diffusion assays)
- Fungal exo-enzyme tests (phospholipase, esterase, hemolysin, proteinases...)
- Identification of fungal diseases and clinically important fungi
- Electrophoresis (ID, CIE...)
- SDS-PAGE
- Biofilm assay (XTT, Crystal violet, Safranin...)
- Blotting-Immunoblotting

Participate in Work Shops:

SPSS, Proposal Writing, Research Methodes, ENDnote X6, ELISA, Safety and Protection in Biomedical Laboratories, Sequence Analysis Approaches in

Identification and Phylogeny of Fungi, Scientific Writing, Quality Control in Clinical Laboratory, Medical Laboratories-6 Sigma.

Congress Presentations:

- 2nd Iranian Congress on Medical Mycology, Ahvaz, Iran.
- 3th Iranian Congress on Medical Mycology, Shiraz, Iran.
- 4th Iranian Congress on Medical Mycology, Mazandaran, Iran.
- 20th Congress of the International Society for Human and Animal Mycology (ISHAM), Amsterdam, Netherlands.

Published, Accepted, Submitted Articles

1. **Zareshahrabadi Z**, Karimirad M, Pakshir K, Bahmyari R, Motamedi M, Nouraei H, Zomorodian K. Survey of aflatoxins and ochratoxin A contamination in spices by HPLC-based method in Shiraz, Southern of Iran. *Environmental Science and Pollution Research*. 2021 Mar 27:1-8.
2. **Zareshahrabadi Z**, Zomorodian K, Pakshir K, Mehrabani D, Nouraei H, Motamedi M, Rezaie S, Hashemi SJ, Ranjbaran A, Nazemi L, Ahmadikia K. Morphogenesis and pathogenesis regulation OF *Candida albicans* BY probiotic bacterium–*Pediococcus acidilactici*. *Journal of Microbiology, Biotechnology and Food Sciences*. 2021 Jan 4;2021:5-11.
3. **Zareshahrabadi Z**, Totonchi A, Rezaei-Matehkolaei A, Ilkit M, Ghahartars M, Arastehfar A, Motamedi M, Nouraei H, Sharifi M, Mohammadi T, Zomorodian K. Molecular Identification and Antifungal Susceptibility among Clinical Isolates of Dermatophytes in Shiraz, Iran (2017–2019). *Mycoses*. 2020 Dec 9.
4. **Zareshahrabadi Z**, Bahmyari R, Nouraei H, Khodadadi H, Mehryar P, Asadian F, Zomorodian K. Detection of Aflatoxin and Ochratoxin A in Spices by High-Performance Liquid Chromatography. *Journal of Food Quality*. 2020 Dec 12; 2020.
5. **Zareshahrabadi Z**, Sarkari B, Shamsolvaezin N, Ziaian B, Tootoonchi A, Shahriarirad R, Zomorodian K. Concomitant of Pulmonary Hydatid Cyst and Aspergilloma: A Rare Coinfection. *Case Reports in Infectious Diseases*. 2020 Dec 12; 2020.
6. **Zahra Zareshahrabadi**, Fatemeh Karami, Saeed Taghizadeh, Aida Iraj, Ali Mohammad Amani, Marjan Motamedi, Kamiar Zomorodian. Green Synthesis of Silver Nanoparticles Using Aqueous Extract of *Lamium album* and their Antifungal Properties. *Journal of Nano Research*. 2021Apr 27.

7. Ansarifard E, ZareShahrabadi Z, Sarafraz N, Zomorodian K. Evaluation of Antimicrobial and Antibiofilm Activities of Copper Oxide Nanoparticles within Soft Denture Liners against Oral Pathogens. *Bioinorganic Chemistry and Applications*. 2021 Jun 4;2021.
8. Pakshir K, ZareShahrabadi Z, Zomorodian K, Ansari S, Nouraei H, Gharavi A. Molecular identification of non-*Cryptococcus* yeasts associated with pigeon droppings in Shiraz, Southern Iran. *Iranian Journal of Veterinary Research*. 2019; 20(3):204.
9. Nouraei H, Sheykhi S, ZareShahrabadi Z, Khodadadi H, Zomorodian K, Pakshir K. Comparative Analysis of Virulence Factors of Homozygous and Heterozygous Strains of *Candida albicans* Vaginal Isolates. *International Journal of Microbiology*. 2020 Jun 27; 2020.
10. Nouraei H, Pakshir K, ZareShahrabadi Z, Zomorodian K. High detection of virulence factors by *Candida* species isolated from bloodstream of patients with candidemia. *Microbial Pathogenesis*. 2020 Dec 1;149:104574.
11. Azad A, Ranjbaran A, ZareShahrabadi Z, Mehrabani D, Zahed Zahedani M, Talebanpour A, Zomorodian K. Protective Effects of the Probiotic Bacterium *Streptococcus thermophilus* on *Candida albicans* Morphogenesis and a Murine Model of Oral Candidiasis. *Iranian Journal of Medical Sciences*. 2020 Nov 4.
12. Abbasi R, Zomorodian K, Zare Shahrabadi Z, Saadat F, Nabavizadeh SH, Esmaeilzadeh H, Alyasin S. IL-25 and IL-33 Serum Levels are not associated with the Type of Allergen Causing Allergic Rhinitis. *Iranian Journal of Immunology*. 2019 Dec 30;16(4):321-6.
13. Arastehfar A, Khanjari S, ZareShahrabadi Z, Fang W, Pan W, Asadpour E, Daneshnia F, Ilkit M, Boekhout T, Perlin DS, Zand F. Clinical and microbiological features of candiduria in critically ill adult patients in Shiraz, Iran (2016–2018): deviations from international guidelines and fluconazole therapeutic failure. *Medical Mycology*. 2020 Dec 10.
14. Giti R, Zomorodian K, Firouzmandi M, ZareShahrabadi Z, Rahmannasab S. Antimicrobial Activity of Thermocycled Polymethyl Methacrylate Resin Reinforced with Titanium Dioxide and Copper Oxide Nanoparticles. *International Journal of Dentistry*. 2021 Jan 30;2021.

15. Barzegar S, Zare MR, Shojaei F, **Zareshahrabadi Z**, Koochi-Hosseiniabadi O, Saharkhiz MJ, Iraj A, Zomorodian K, Khorram M. Core-shell chitosan/PVA-based nanofibrous scaffolds loaded with *Satureja mutica* or *Oliveria decumbens* essential oils as enhanced antimicrobial wound dressing. *International Journal of Pharmaceutics*. 2021 Mar 15;597:120288.
16. Kashefi E, Seyedi SJ, Zomorodian K, **Zare Shahrabadi Z**, Zarrinfar H. Successful treatment of pulmonary aspergillosis due to *Aspergillus fumigatus* in a child affected by systemic lupus erythematosus: A case report from Northeastern Iran. *Clinical Case Reports*. 2021 May;9(5):e04248.
17. Khodadadi H, Zomorodian K, Nouraei H, **Zareshahrabadi Z**, Barzegar S, Zare MR, Pakshir K. Prevalence of superficial-cutaneous fungal infections in Shiraz, Iran: A five-year retrospective study (2015-2019). *Journal of Clinical Laboratory Analysis*. 2021 May 24:e23850-.
18. Afroozi B, Zomorodian K, Lavaee F, **Shahrabadi ZZ**, Mardani M. Comparison of the efficacy of indocyanine green-mediated photodynamic therapy and nystatin therapy in treatment of denture stomatitis. *Photodiagnosis and photodynamic therapy*. 2019 Sep 1;27:193-7.
19. Pakshir K, Mirshekari Z, Nouraei H, **Zareshahrabadi Z**, Zomorodian K, Khodadadi H, Hadaegh A. Mycotoxins detection and fungal contamination in black and green tea by HPLC-based method. *Journal of Toxicology*. 2020 Aug 3;2020.
20. Pakshir K, Sheykhi S, Zomorodian K, Nouraei H, **Shahrabadi ZZ**. Evaluation of biofilm formation in the homozygous and heterozygous strains of vaginal *Candida albicans* isolates. *Current medical mycology*. 2019 Jun; 5(2):37.
21. Zare MR, Khorram M, Barzegar S, Asadian F, **Zareshahrabadi Z**, Saharkhiz MJ, Ahadian S, Zomorodian K. Antimicrobial core-shell electrospun nanofibers containing Ajwain essential oil for accelerating infected wound healing. *International Journal of Pharmaceutics*. 2021 May 12:120698.
22. Nazemi L, Hashemi SJ, Ghazvini RD, Saedi M, Khodavaisy S, Barac A, Modiri M, **Zareshahrabadi Z**, Dana MA. Investigation of *cgrA* and *cyp51A* gene alternations in *Aspergillus*

fumigatus strains exposed to kombucha fermented tea. Current medical mycology. 2019 Sep;5(3):36.

23. Arastehfar A, Daneshnia F, Zomorodian K, Najafzadeh MJ, Khodavaisy S, Zarrinfar H, Hagen F, Shahrabadi ZZ, Lackner M, Mirhendi H, Salehi M. Low level of antifungal resistance in Iranian isolates of *Candida glabrata* recovered from blood samples in a multicenter study from 2015 to 2018 and potential prognostic values of genotyping and sequencing of PDR1. Antimicrobial agents and chemotherapy. 2019 Jul 1; 63(7).

24. Arastehfar A, Khodavaisy S, Daneshnia F, Najafzadeh MJ, Mahmoudi S, Charsizadeh A, Salehi MR, Zarrinfar H, Raeisabadi A, Dolatabadi S, Zare Shahrabadi Z. Molecular identification, genotypic diversity, antifungal susceptibility, and clinical outcomes of infections caused by clinically underrated yeasts, *Candida orthopsilosis*, and *Candida metapsilosis*: an Iranian multicenter study (2014–2019). Frontiers in cellular and infection microbiology. 2019 Jul 30; 9:264.

25. Arastehfar A, Daneshnia F, Hafez A, Khodavaisy S, Najafzadeh MJ, Charsizadeh A, Zarrinfar H, Salehi M, Shahrabadi ZZ, Sasani E, Zomorodian K. Antifungal susceptibility, genotyping, resistance mechanism, and clinical profile of *Candida tropicalis* blood isolates. Medical mycology. 2020 Aug; 58(6):766-73.

26. Motamedi M, Saharkhiz MJ, Pakshir K, Akbarabadi SA, Khordshami MA, Asadian F, Zareshahrabadi Z, Zomorodian K. Chemical compositions and antifungal activities of *Satureja macrosiphon* against *Candida* and *Aspergillus* species. Current medical mycology. 2019; 5(4):20.

27. Arastehfar A, Daneshnia F, Najafzadeh MJ, Hagen F, Mahmoudi S, Salehi M, Zarrinfar H, Namvar Z, Zareshahrabadi Z, Khodavaisy S, Zomorodian K. Evaluation of molecular epidemiology, clinical characteristics, antifungal susceptibility profiles, and molecular mechanisms of antifungal resistance of Iranian *Candida parapsilosis* species complex blood isolates. Frontiers in cellular and infection microbiology. 2020 May 21; 10:206.

28. Bashiri M, Jarrahpour A, Rastegari B, Iraj A, Irajie C, Amirghofran Z, Malek-Hosseini S, Motamedifar M, Haddadi M, Zomorodian K, Zareshahrabadi Z. Synthesis and evaluation of

biological activities of tripodal imines and β -lactams attached to the 1, 3, 5-triazine nucleus. Monatshefte für Chemie-Chemical Monthly. 2020 May; 151:821-35.

29. Pakshir K, Dehghani A, Nouraei H, **Zareshahrabadi Z**, Zomorodian K. Evaluation of fungal contamination and ochratoxin A detection in different types of coffee by HPLC-based method. Journal of Clinical Laboratory Analysis. 2021 Nov;35(11):e24001.

30. Arabi Monfared A, Yazdanpanah M, **Zareshahrabadi Z**, Pakshir K, Ghahartars M, Mehrabani D, Yazdanpanah S, Iraji A, Zomorodian K. Chemical composition and antifungal activities of aromatic water of Zataria multiflora Boiss. Current Medical Mycology. 2021 Sep 26;7(3):29-35.

31. **Zareshahrabadi Z**, Shafiekhani M, Nikoupour H, Nouraei H, Morovati H, Zomorodian K. Emerging of Fatal Colitis with Multidrug-Resistant Candida glabrata after Small Bowel Transplantation. Case reports in transplantation. 2021 Sep 9;2021.

32. Hejazi M, **Zareshahrabadi Z**, Ashayeri S, Saharkhiz MJ, Iraji A, Alishahi M, Zomorodian K. Characterization and Physical and Biological Properties of Tissue Conditioner Incorporated with Carum copticum L. BioMed Research International. 2021 Aug 12;2021.

33. Milad Larijani, **Zahra Zareshahrabadi**, Abdolhamid Alhavaz, Romina Hajipour, Alireza Ranjbaran, Rashin Giti, Vahid Soltankarimi, Kamiar Zomorodian. Assessment of Candida albicans biofilm formation on conventional and computer-aided-design/computer-aided manufacturing (CAD/CAM) denture base materials. (Under review in International Journal of Microbiology).

34. Fatemeh Amini, **Zahra Zareshahrabadi**, Kamiar Zomorodian. Investigation the Therapeutic Effects of an Herbal-based Vaginal Cream containing a mix of Aqueous Extract of Althaea Officinalis 4% and Clotrimazole Cream 1% on Candidal Vulvovaginitis (submitted).

همکاری در طرح های پژوهشی

۱. تعیین حساسیت دارویی و موتاسیون های مرتبط با مقاومت در ایزوله های کاندیدا ترئوپیکالیس جدا شده از خون با کد ۲۱۲۰۳-۴۳-۰۱-۹۸
۲. شناسایی مولکولار درماتوفیت های جدا شده از بیماران مراجعه کننده به آزمایشگاههای مراکز درمانی دانشگاه علوم پزشکی شیراز بر اساس طبقه بندی جدید و تعیین حساسیت دارویی آن ها نسبت به داروهای ضد قارچی در سالهای ۱۳۹۶ و ۱۳۹۷. با کد ۱۶۴۶۳-۰۱-۰۱-۱۳۹۶
۳. سنتز سبز نانوذرات نقره با استفاده از عصاره آبی گیاه گزنه سفید و تعیین خواص ضد قارچی نانوذرات تولید شده با کد ۱۷۸۰۹-۰۱-۰۱-۹۷
۴. شناسایی و تعیین گونه های کاندیدا جدا شده از بیماران تحت شیمی درمانی در بیمارستان نمازی و انکولوژی امیر در سالهای ۱۳۹۸ با کد ۱۸۴۰۷-۹۹-۰۱-۹۷
۵. بررسی حساسیت دارویی، تعیین ژنوتیپ، مکانیسم های مقاومت و پاسخ به درمان مبتلان به کاندیدیازیس ناشی از کاندیدا اورتوپسیلوزیس و کاندیدا متاپسیلوزیس با کد ۱۹۷۵۴-۴۳-۰۱-۹۸
۶. بررسی میکروبیولوژیک، پاسخ به درمان و موتاسیون های احتمالی در ژن های دخیل در مقاومت دارویی مخمرهای کاندیدا کاندیدا پاراپسیلوزیس جدا شده از خون با کد ۱۹۳۷۱-۱۰۶-۰۱-۹۷
۷. ارزیابی فاکتورهای ویروانس در بین گونه های کاندیدای جدا شده از نمونه های بالینی خون با کد ۹۸-۱۹۷۴۱-۰۱-۰۱
۸. تعیین الگوی حساسیت و مقاومت دارویی کاندیدا کفایر جدا شده از نمونه های بالینی و محصولات مختلف لبنی با کد ۲۰۹۳۰
۹. بررسی اثرات ضد میکروبی اسانسهای درمنه دشتی و مریم گلی بر علیه میکروارگانیسم های ایجاد کننده عفونت های دهانی ۲۳۳۶۳
۱۰. سنتز و تعیین خصوصیات نانو پارتیکل های آهن متصل شده به داروی ضد قارچ (آمفوتریسین ب / فلوکونازول) و تعیین خواص و مکانیسم عمل نانوذرات تولید شده بر روی قارچ های بیماری زا ۲۲۵۴۲
۱۱. ساخت و ارزیابی نانوالیاف حاوی داروی ضد انگل گلوکانتیم به منظور درمان نوین لیشمانیوز و بررسی خواص فیزیکی و بیولوژیک آن ۲۲۵۳۶
۱۲. بررسی فعالیت ضد میکروبی و خصوصیات مکانیکی تیشو کاندیشنر حاوی اسانس زنیان ۲۲۶۳۱

۱۳. بررسی ترکیبات و اثرات ضد میکروبی اسانس آویشن آناتولی بر روی سویه های استرپتوکوکوس و انتروکوکوس مرتبط با عفونت های دهانی و تولید بیوفیلم. ۲۲۰۵۳